Right Triangle:

A triangle that has a right, or 90, angle

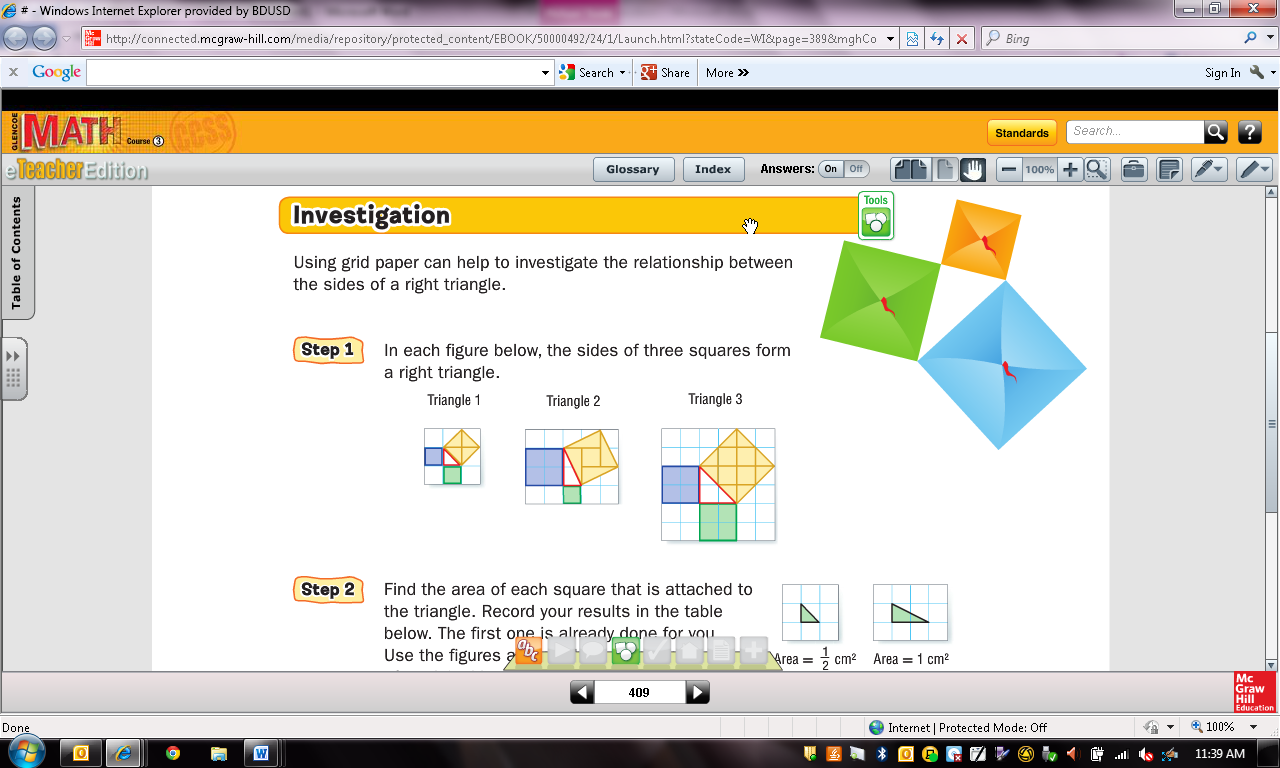
Hypotenuse:

* The longest side of a right triangle;
* It is the side opposite the right angle

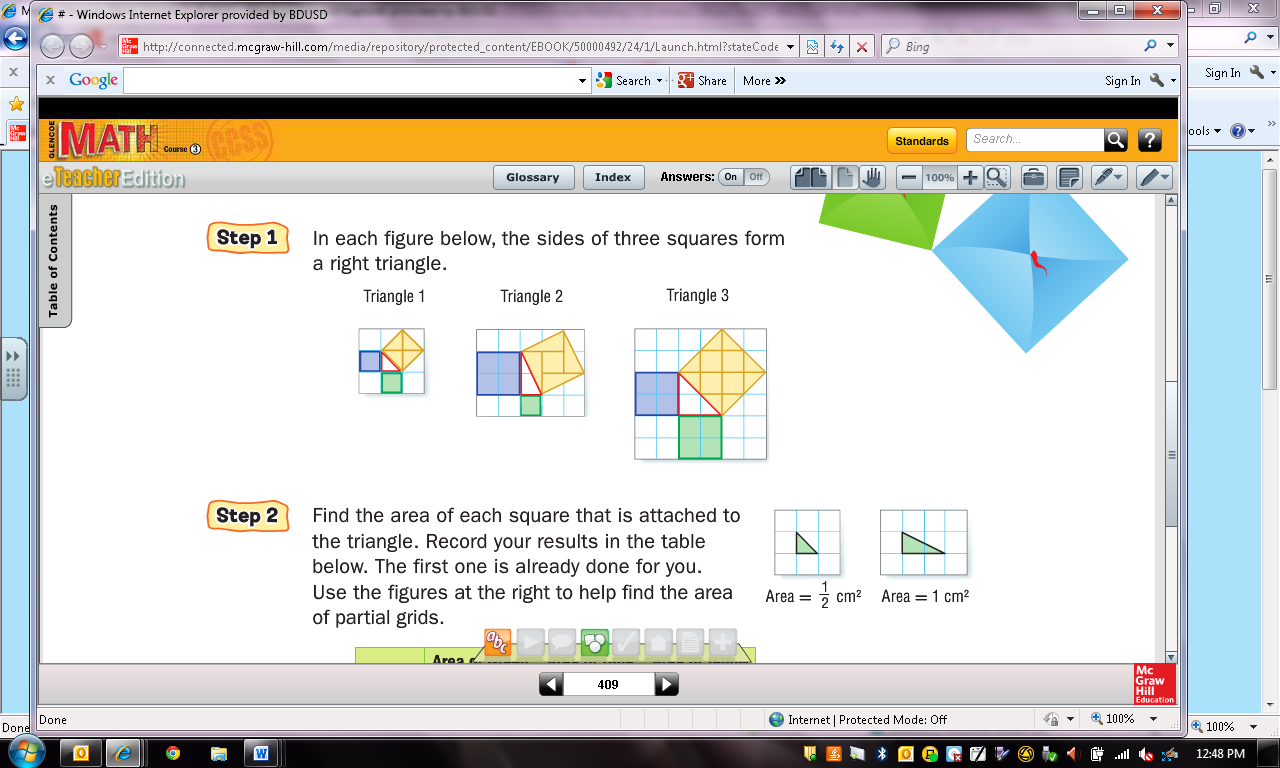
Legs:

The other 2 sides of a right triangle

Label the Hypotenuse, legs, and right angles on each of the triangles below:



**KEY**



|  |  |  |  |
| --- | --- | --- | --- |
| Triangle | Area of blue square  (a) | Area of green square  (b) | Area of yellow square  (c) |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

* Theorem: General mathematical statement that has been proven true
* Pythagoras: Greek Mathematician
* Pythagorean Theorem: For a right triangle with legs of lengths *a* and *b*, and hypotenuse of length *c*,

a2 + b2 = c2

Examples: Find the hypotenuse.





**Pasture**



**Buttercup**

**Stable**

**10 yards**

**12 yards**

**c**